

# Bay Area Air Quality Management District

939 Ellis Street  
San Francisco, CA 94109  
(415) 771-6000

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## Proposed

# MAJOR FACILITY REVIEW PERMIT

Issued To:

**East Bay Municipal Utility District  
Facility #A0591**

**Facility Address:**

2020 Wake Avenue  
Oakland, CA 94607

**Mailing Address:**

P.O. Box 24055 MS #704

**Responsible Official**

David R. Williams  
(510) 287-1663

**Facility Contact**

Kurt Haunschild  
(510) 287-1407

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**Type of Facility:**

Municipal Wastewater Treatment Facility  
(Publicly Owned Treatment Works)

**Primary SIC:**

4952

**Product:**

Treated Municipal Wastewater

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Ellen Garvey, Air Pollution Control Officer

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Date

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## I. STANDARD CONDITIONS

### A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 11/3/93);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 11/10/82);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 6/7/95);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 6/23/95);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 6/7/95);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 10/19/84); and

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 6/15/94).

### B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit expires on [ENTER DATE 5 YEARS AFTER ISSUANCE]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [6 MONTHS PRIOR TO EXPIRATION] and no earlier than [ONE YEAR PRIOR TO EXPIRATION]. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** [DAY PRIOR TO EXPIRATION]. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (Regulation 2-6-~~307~~ ~~409.7~~; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-

## I. Standard Conditions (continued)

409.7; MOP Volume II, Part 3, §4.11)

6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit ~~within 30 days~~. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

### **Minor Permit Modification Procedures**

~~Notwithstanding the provisions set forth in Regulation 2, Rule 6, Major Facility Review, Section 411, Reports to EPA and Public Petitions for Major Facility Review Permits; Section 412, Public Participation, Major Facility Review Permit Issuance; and Section 414, Minor Permit Modification Procedures:~~

- ~~1. Advance public notice and EPA review shall not be required for any proposed minor permit modification. Once per calendar quarter, the District shall publish a list that includes any minor permit modification issued during the previous quarter.~~
- ~~2. For any minor permit modification involving an emission increase from any source or group of sources equal to or greater than: 5 tons per year of a regulated air pollutant; 2 tons per year of any single hazardous air pollutant; and 5 tons per year of any combination of hazardous air pollutants, the District shall provide to EPA a copy of each relevant application or a summary of the application, and a copy of each final permit revision.~~

## **I. Standard Conditions (continued)**

~~3. For any minor permit modification involving an emission increase from any source or group of sources of less than: 5 tons per year of a regulated air pollutant, 2 tons per year of any single hazardous air pollutant; and 5 tons per year of any combination of hazardous air pollutants, the District shall not submit a copy of the relevant application, a summary of the application, or final permit revision to EPA. EPA shall not object to any permit modification involving an emission increase below the levels described herein. Such permit modifications shall be incorporated as attachments to this permit during the remaining term of the permit, and incorporated into the body of the permit as part of the five-year permit renewal.~~

### **C. Requirement to Pay Fees**

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

### **D. Inspection and Entry**

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

### **E. Records**

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

### **F. Monitoring Reports**

All required monitoring reports must be submitted to the District at least once every six months. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported to the District's Compliance and Enforcement Division within 10 days of the discovery of the incident. Within 30 days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. (Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

### **G. Compliance Certification**

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

## **I. Standard Conditions (continued)**

Director of the Air Division  
USEPA, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105  
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

### **H. Emergency Provisions**

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement unless the Major Facility Review Permit has been modified pursuant to Regulation 2, Rule 6. (MOP Volume II, Part 3, §4.8)

### **I. Severability**

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

### **J. Accidental Release**

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

## II. EQUIPMENT LIST

### A. Permitted Source List

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2-1-302.

**Table II-A**

S-#	Description	Make or Type	Model	Capacity
S-3	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-4	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-5	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-6	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-37	Diesel/Digester Gas Engine	DeLaval/Cooper	DGSR-46	10.965 MM Btu/hr
S-38	Diesel/Digester Gas Engine	DeLaval/Cooper	DGSR-46	10.965 MM Btu/hr
S-39	Diesel/Digester Gas Engine	DeLaval/Cooper	DGSR-46	10.965 MM Btu/hr
S-42	Aerosol Can Painting Operation	Custom	N/A	N/A
S-43	Wet Weather Primary Sludge Thickeners (2)	Custom	Custom	N/A
S-44	Chlorination Building	Custom	N/A	N/A
S-45	Aerated Grit Tanks	Custom	N/A	N/A
S-46	Influent Pump Station	Custom	N/A	N/A
S-47	Scum Thickening Building	Custom	N/A	N/A
S-48	Gasoline Dispensing Facility #9008	Emco-Wheaton	N/A	4000 gallon tank; one dispensing nozzle
S-100	Wastewater Treatment Plant-Fugitive Emissions	Custom	A3003/A3005	N/A
S-110	Preliminary Treatment	Custom	N/A	N/A
S-120	Primary Treatment	Custom	N/A	N/A
S-130	Secondary Treatment	Custom	N/A	N/A
S-140	Secondary Clarifiers	Custom	N/A	N/A
S-150	Tertiary Treatment	Custom	N/A	N/A
S-160	Disinfection	Custom	N/A	N/A
S-170	Waste Activated Sludge (WAS) Dewatering Centrifuges/ WAS Thickening Centrifuges	Custom	N/A	N/A

## II. Equipment List (continued)

### A. Permitted Source List (continued)

**Table II-A**

S-#	Description	Make or Type	Model	Capacity
S-180	Anaerobic Digesters	Custom	N/A	N/A
S-181	Waste Activated Sludge Thickening Centrifuges	Customs	N/A	N/A
S-182	Therman Conditioner (Boiler - diesel)	Dixon	5K-6	3.5 MM Btu/Hr

### B. Abatement Device List

**Table II-B**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-4	Chlorine (Emergency) Scrubber	S-44	BAAQMD Reg 1-301		N/A
A-5	H2S Wet Scrubber	S-46, S-110	BAAQMD Reg 1-301	< 5 odor complaints per month	N/A
A-7	Atomized Mist Scrubber	S-170, S-181	BAAQMD Reg 1-301	< 5 odor complaints per month	N/A
A-190	Digester Gas Flare	S-180	BAAQMD Reg 1-301		N/A
A-191	Digester Gas Flare	S-180	BAAQMD Reg 1-301		N/A
A-192	Digester Gas Flare	S-180	BAAQMD Reg 1-301		N/A
A-193	Digester Gas Flare	S-180	BAAQMD Reg 1-301		N/A



### III. GENERAL APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in ~~Part Section IV, Source-Specific Applicable Requirements, and Part VI, Applicable Emission Limits & Compliance Monitoring Requirements,~~ of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s):

† The date(s) of adoption or most recent amendment of the regulation by the District Board or, for SIP requirements

2. Any federal requirement, including a version of a District regulation that has been approved into the SIP:

† The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

Where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A of this permit.

**Table III**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><del>SIP-approved</del> FE (Y/N)</b>	
BAAQMD Regulation 1	General Provisions and Definitions (11/3/93)	N	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (11/10/82)</u>	<u>Y</u>	
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N	
<u>SIP Regulation 4</u>	<u>Air Pollution Episode Plan (8/06/90)</u>	<u>Y</u>	
BAAQMD Regulation 5	Open Burning (11/2/94)	N	
<u>SIP Regulation 5</u>	<u>Open Burning (5/3/84)</u>	<u>Y</u>	

### III. General Applicable Requirements (continued)

**Table III** (continued)

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><del>SIP-approved</del>/ FE (Y/N)</b>	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (5/3/84)</u>	<u>Y</u>	
		N	
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N	
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (6/15/94)	Y	
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	N	
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/16/83)	Y	
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N	
<u>SIP Regulation 8, Rule 49</u>	<u>Organic Compounds - Aerosol Paint Products (3/22/95)</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N	

### III. General Applicable Requirements (continued)

**Table III** (continued)

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><del>SIP-approved</del> FE (Y/N)</b>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84)	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (3/17/82)	N	
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y	
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N	
<u>SIP Regulation 12, Rule 4</u>	<u>Miscellaneous Standards of Performance - Sandblasting (9/2/81)</u>	<u>Y</u>	

Facility Name: East Bay Municipal Utility District  
Proposed Permit for Facility #: A0591  
Expiration Date: xx-xx-01  
ID: REF

### **III. General Applicable Requirements (continued)**

#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s). ~~The text of all permit conditions cited is included in Part V, Permit Conditions, of this permit. All other text may be found in the regulations themselves.~~

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s):

† The date(s) of adoption or most recent amendment of the regulation by the District Board or, for SIP requirements

2. Any federal requirement, including a version of a District regulation that has been approved into the SIP:

† The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. Additionally, where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A of this permit. All other text may be found in the regulations themselves.

**Table IV-A**  
**S-3, S-4, S-5, S-6 Hot Water Boilers**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	N	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>SIP Regulation 6</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE</b>		
	<b>Particulate Matter and Visible Emissions (6/16/83)</b>		
6-301	Ringelmann Number 1 Limitation	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-A (continued)**  
**S-3, S-4, S-5, S-6 Hot Water Boilers**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b><u>Future Effective Date</u></b>
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>SIP Regulation 9, Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/16/92)</b>		
9-7-304	Low Fuel Usage Requirements	N	
9-7-304.2	Operating Standard, Tuning	N	
9-7-306	Equipment Testing - Non-Gaseous Fuel	N	
9-7-306.1	Performance Standard, NOx	N	
9-7-306.2	Performance Standard, CO	N	
9-7-306.3	Operating Standard, Equipment Testing	N	
9-7-502	Modified Maximum Heat Input	N	
9-7-503	Records	N	
9-7-503.1	§304.2 Records	N	
9-7-503.3	§306.3 Records	N	
9-7-603	Compliance Determination	N	
9-7-604	Tune-Up Procedures	N	
<b>BAAQMD Cond #278</b>			
part 3	To be operated on standby basis only (Basis: Cumulative Increase)	Y	

<sup>1</sup> This section of the SIP rule has been removed from or revised in the current BAAQMD rule. Nevertheless, the source must comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-B**  
**S-37 Diesel Engine Generator Station**  
**S-38 Diesel Engine Generator Station**  
**S-39 Diesel Engine Generator Station**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	N	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>SIP Regulation 6</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE</b> <b>Particulate Matter and Visible Emissions (6/16/83)</b>		
6-301	Ringelmann Number 1 Limitation	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>SIP Regulation 9, Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE</b> <b>Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 8</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</b>		
9-8-302	Emission Limits - Waste Derived Fuel Gas	N	
9-8-302.1	NOx Limits for Lean Burn Engines	N	
9-8-302.3	CO Limits	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-B (continued)**  
**S-37 Diesel Engine Generator Station**  
**S-38 Diesel Engine Generator Station**  
**S-39 Diesel Engine Generator Station**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b><u>Future Effective</u> Date</b>
<b>BAAQMD Cond #278</b>			
part 1	NOx Limit (Basis: BAAQMD Regulation 9-8-302)	N	
part 2	Total Diesel Fuel Usage (Basis: Cumulative Increase)	Y	
part 4	Maximum Operation: 2 of 3 Engines Only (Basis: Cumulative Increase)	Y	
part 5	Operation, Usage, and Consumption Records (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)		
part 6	Periodic Monitoring for Engines (Basis: Regulation 2-6-409.2)	Y	

<sup>1</sup> This section of the SIP rule has been removed from or revised in the current BAAQMD rule. Nevertheless, the source must comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.



#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-C**  
**S-42 Aerosol Can Painting Operation**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b><u>Future Effective Date</u></b>
<b>BAAQMD Regulation 8, Rule 49</b>	<b>Organic Compounds - Aerosol Paint Products (1/19/94)</b>		
8-49-301	VOC Content Limits	Y	
8-49-302	Prohibition of Non-Intended Use	Y	
8-49-303	Multi-component VOC Limitation	Y	
<b>BAAQMD Cond # 911</b>			
part 1	Maintain Listing of Coatings, Thinners, Solvents Being Used (Basis: Cumulative Increase)	Y	
part 2	Maintain Monthly Records with Type, Amount of Coatings (Basis: Cumulative Increase)	Y	
part 3	Retain Records, Make Available for APCO Inspection (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)	Y	
part 4	Maximum Usage of Coatings, Thinners, Solvents (Basis: Cumulative Increase)	Y	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-D**  
**S-43 Wet Weather Primary Sludge Thickeners**  
**S-44 Chlorination Building**  
**S-45 Aerated Grit Building**  
**S-46 Influent Pump Station**  
**S-47 Scum Thickening Building**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b><u>Future Effective</u> Date</b>
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds-Miscellaneous Operation (6/15/94)</b>		
8-2-301	Miscellaneous Operations Standards	Y	
<b>BAAQMD Cond #2409</b>			
part 1	Consequences of Odor Complaints (Basis: BAAQMD Regulation 2-1-403)	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-E**  
**S-48, GDF #9008**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 7</b>	<b>Organic Compounds - Gasoline Dispensing Facilities (6/1/94)</b>		
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.4	P-V Valves on All Open Vent Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-404	Certification of New Installations	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
<b>BAAQMD Cond #7523</b>			
part 1	Throughput limit (Basis: BAAQMD Toxic Policy)	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-F**  
**S-110 Preliminary Treatment**  
**S-120 Primary Treatment**  
**S-130 Secondary Treatment**  
**S-140 Secondary Clarifiers**  
**S-150 Tertiary Treatment**  
**S-160 Disinfection**  
**S-170 Waste Activated Sludge Dewatering Centrifuges**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds-Miscellaneous Operation (6/15/94)</b>		
8-2-301	Miscellaneous Operations Standards	Y	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-G**  
**S-180 Anaerobic Digesters; 12 Floating Cover Digesters**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds-Miscellaneous Operation (6/15/94)</b>		
8-2-301	Miscellaneous Operations Standards	Y	
<b>BAAQMD Cond #13132</b>			
part 1	Alternative venting requirements (Basis: Reg 1-301;)	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-H**  
**S-181 Waste Activated Sludge (WAS) Thickening Centrifuges**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds-Miscellaneous Operation (6/15/94)</b>		
8-2-301	Miscellaneous Operations Standards	Y	
<b>BAAQMD Cond #7293</b>			
part 1	Liquid throughput (Basis: Cumulative increase, BAAQMD Regulation 2-6-501)	Y	
part 2	Abatement Requirement (Basis: Reg 1-301)	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-I  
S-182 Boiler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	N	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>SIP Regulation 6</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE Particulate Matter and Visible Emissions (6/16/83)</b>		
6-301	Ringelmann Number 1 Limitation	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>SIP Regulation 9, Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/16/92)</b>		
9-7-304	Low Fuel Usage Requirements	N	
9-7-304.1	Emission Standard, O <sub>2</sub> Stack Gas Content		
9-7-304.2	Operating Standard, Tuning	N	
9-7-502	Modified Maximum Heat Input	N	
9-7-503	Records	N	
9-7-503.1	§304.2 Records	N	
9-7-503.4	§403 Records and Record Retention	N	
9-7-603	Compliance Determination	N	
9-7-604	Tune-Up Procedures	N	

#### IV. Source-Specific Applicable Requirements (continued)

**Table IV-I (continued)**  
**S-182 Boiler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b><u>Federally Enforceable</u> (Y/N)</b>	<b><u>Future Effective Date</u></b>
<b>BAAQMD Cond #13844</b>			
part 1	Annual Tuning or Stack Gas O <sub>2</sub> Limit (Basis: BAAQMD Regulation 9-7-304)	N	
part 2	Recordkeeping Requirements (Basis: BAAQMD Regulation 9-7-503.1)	N	
part 2	Record Retention Requirements (Basis: BAAQMD Regulation 2-6-501)	Y	

<sup>1</sup> This section of the SIP rule has been removed from or revised in the current BAAQMD rule. Nevertheless, the source must comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.



## **V. SCHEDULE OF COMPLIANCE**

The permit holder shall continue to comply with all applicable requirements cited in Parts III and IV of this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit.

## **VI. PERMIT CONDITIONS**

Any condition that is preceded by an asterisk is not federally enforceable.

### **A. Source Specific Permit Conditions**

#### **Condition #278**

For S-37, Dual Fuel Engine Generator	S-3, Hot Water Boiler
S-38, Dual Fuel Engine Generator	S-4, Hot Water Boiler
S-39, Dual Fuel Engine Generator	S-5, Hot Water Boiler
	S-6, Hot Water Boiler

1. The total nitrogen oxide emissions from each of the three engines, S-37, S-38, and S-39, shall not exceed 140 ppmv @ 15% Oxygen. (Basis: BACT)
2. The total diesel fuel used shall not exceed 550 gals/stream day. (Basis: Cumulative Increase)
3. The four hot water boilers (S-3, S-4, S-5, S-6) shall be operated only on a standby basis, during periods when the Power Cogeneration Station is inoperative. (Basis: Cumulative Increase)
4. EBMUD shall not operate more than two of the three engines at any time (S-37, S-38, S-39). (Basis: Cumulative Increase)
5. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
  - a. Daily records of hours of engine operation, diesel and/or digester gas consumption and electrical power output. (Basis: Cumulative Increase)All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: BAAQMD Regulation 2-6-501)

## **VI. Permit Conditions (continued)**

### **A. Source-Specific Permit Conditions (continued)**

6. The owner/operator shall ensure that an annual performance test is conducted on each engine in accordance with the District test procedures to demonstrate compliance with the NO<sub>x</sub> and CO limits. The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supercede the annual source test requirement. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)

#### **Condition #911**

For S-42, Painting Operation

1. The user shall maintain a current list of coatings, thinners, and solvents in use. (Basis: Cumulative Increase)
2. The user shall maintain records on a monthly basis showing the type and amount of each coating, thinner, and solvent used. (Basis: Cumulative Increase)
3. Such records shall be retained and available for inspection by the APCO for five years from the date of entry. (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)
4. Not more than 200 gallons total of coatings (paint), thinners, plus solvent shall be consumed in any 12 month period. (Basis: Cumulative Increase)

#### **Condition #2409**

For S-43, Chlorination Building  
S-45, Aerated Grit Tanks  
S-46, Influent Pump Station  
S-47, Scum Thickening Building

- \*1. If the District receives more than five confirmed odor complaints within one month, the EBMUD shall take immediate action to remedy the odor problem. (Basis: BAAQMD Regulation 2-1-403 )

#### **Condition #7523**

## **VI. Permit Conditions (continued)**

### **A. Source-Specific Permit Conditions (continued)**

For S-48, GDF #9008

- \*1. Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 400,000 gallons in any consecutive 12 month period. (Basis: BAAQMD Toxic Policy)

#### **Condition #13132**

For S-180 Anaerobic Digesters; 12 Floating Cover Digesters

- \*1. S-180 shall be vented to A-190, A-191, A-192 or A-193, Digester Gas Flare in addition to, or when not vented to S-37, S-38, S-3, S-4, S-5 or S-6. (Basis: BAAQMD Regulation 1-301)

#### **Condition #7293**

For S-181 Waste Activated Sludge Thickening Centrifuge

- 1. The total quantity of waste sludge processed through the S-181 WAS Thickening Centrifuges shall not exceed 578,160,000 gallons during any consecutive twelve month period. A monthly record of the amount of materials processed shall be kept on site in a District-approved log and made available for District inspection for a minimum of five years from the date each record is made. (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)
- \*2. S-181 shall be abated by A-7 Atomized Mist Scrubber at all times. (Basis: BAAQMD Regulation 1-301)

#### **Condition #13844**

For S-182 Boiler

*(Comment: This maximum rated capacity of this boiler is less than 10MMBtu/hr, therefore it is not subject to the limit in §9-7-111.)*

- \* 1. S-182 boiler shall meet one of the following:
  - a) Operate in a manner that maintain stack-gas oxygen concentrations at less than or equal to 3 percent by volume on a dry basis; or
  - b) Tune at a frequency of at least once every twelve months by a technician as directed by the BAAQMD Manual of Procedures, Volume I, Chapter 5

## **VI. Permit Conditions (continued)**

### **A. Source-Specific Permit Conditions (continued)**

(Basis: BAAQMD Regulation 9-7-304)

2. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
  - \* a. If the compliance plan of 2a, above, is chosen, results of any source test required by §9-7-403. (Basis: Regulation 9-7-503.4)
  - \* b. If the compliance plan of 2b, above, is chosen, documentation verifying the annual tune-ups have been performed. (Basis: Regulation 9-7-503.1)

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: BAAQMD Regulation 2-6-501)

### **B. Facility-wide Permit Conditions**

NONE

## VII. APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any indicate the type of compliance monitoring required for each applicable emission limit. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

**Table VII-A**  
**S-3, S-4, S-5, S-6 Hot Water Boilers**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD Regulation 6-301	N		Ringelmann No. 1	None	N	
	BAAQMD Regulation 6-310	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	
	SIP Regulation 6-301	Y		Ringelmann No. 1	None	N	
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	N		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry)	None	N	
	BAAQMD Regulation 9-1-304	Y		Sulfur content of fuel <0.5% by weight	None	N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-A (continued)**  
**S-3, S-4, S-5, S-6 Hot Water Boilers**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP Regulation 9-1-301	Y		Federal std: GLC of 140 ppb, 24-hr average, once/yr and 30 ppb, annual average State std: GLC of 40 ppb, 24-hr average, and 250 ppb, 1 hr average	None	N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-B**  
**S-37 Dual Fuel Engine Generator-Firing Digester Gas**  
**S-38 Dual Fuel Engine Generator-Firing Digester Gas**  
**S-39 Dual Fuel Engine Generator-Firing Digester Gas**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Regulation 9-8-302.1	N		140 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD Cond. 278, part 6	P/A	source test or alternate monitoring plan
	BAAQMD Cond 278; part 1	Y		140 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD Cond. 278, part 6	P/A	source test or alternate monitoring plan
CO	BAAQMD Regulation 9-8-302.3	N		2000 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD Cond. 278, part 6	P/A	source test or alternate monitoring plan
TSP	BAAQMD Regulation 6-301	N		Ringelmann No. 1	None	N	
	BAAQMD Regulation 6-310	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	
	SIP 6-301	Y		Ringelmann No. 1	None	N	
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	N		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry)	None	N	
	BAAQMD Regulation 9-1-304	Y		Sulfur content of fuel <0.5% by weight	None	N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-B (continued)**  
**S-37 Dual Fuel Engine Generator-Firing Digester Gas**  
**S-38 Dual Fuel Engine Generator-Firing Digester Gas**  
**S-39 Dual Fuel Engine Generator-Firing Digester Gas**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP Regulation 9-1-301	Y		Federal std: GLC of 140 ppb, 24-hr average, once/yr and 30 ppb, annual average State std: GLC of 40 ppb, 24-hr average, and 250 ppb, 1 hr average	None	N	
All	BAAQMD Cond 278, part 2	Y		Diesel usage limit; 550 GPSD	BAAQMD Cond. 278, part 5	P/D	records



## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-C**  
**S-42 Aerosol Can Painting Operation**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-49-301	Y		Various, see BAAQMD Reg 8-49-301.1 - 301.3	BAAQMD Cond 911; parts 1,2, 3	P/M	records
	BAAQMD Regulation 8-49-303	Y		Weighted average of the limits in §8-49-301	BAAQMD Condition 911; parts 1, 2, 3	P/M	records
	BAAQMD Cond 911, part 4	Y		Coatings, thinner, solvent usage; 200 gal/12 months	BAAQMD Cond 911, parts 1, 2, 3	P/M	records

**Table VII-D**  
**S-43 Wet Weather Primary Sludge Thickeners**  
**S-44 Chlorination Building**  
**S-45 Aerated Grit Building**  
**S-46 Influent Pump Station**  
**S-47 Scum Thickening Building**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-E  
S-48, GDF #9008**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-7-301.2	Y		95% recovery of gasoline vapors during tank filling	None	N	
	BAAQMD Condition #7523, part 1	N		gasoline throughput shall not exceed 60,000 gallons per year	None	N	

**Table VII-F  
S-110 Preliminary Treatment  
S-120 Primary Treatment  
S-130 Secondary Treatment  
S-140 Secondary Clarifiers  
S-150 Tertiary Treatment  
S-160 Disinfection  
S-170 Waste Activated Sludge Dewatering Centrifuges  
S-180 Anaerobic Digesters; 12 Floating Cover Digesters**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-G**  
**S-181 Waste Activated Sludge Thickening Centrifuges**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	
	BAAQMD Condition #7293, part 1	Y		sludge processed 578,160,000 gallons, max, during any consecutive 12-month period	BAAQMD Condition #7293, part 1	P/M	records

## VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-G  
S-182 Boiler**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD Regulation 6-301	N		Ringelmann No. 1	None	N	
	BAAQMD Regulation 6-310	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	
	SIP Regulation 6-301	Y		Ringelmann No. 1	None	N	
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	N		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry)	None	N	
	BAAQMD Regulation 9-1-304	Y		Sulfur content of fuel <0.5% by weight	None	N	
	SIP Regulation 9-1-301	Y		Federal std: GLC of 140 ppb, 24-hr average, once/yr & 30 ppb, annual average State std: GLC of 40 ppb, 24-hr average, & 250 ppb, 1 hr average	None	N	
NO <sub>x</sub>	BAAQMD Regulation 9-7-304.1	N		Stack gas O <sub>2</sub> concentration ≤ 3%, by volume, dry	None	N	

## VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII - Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII**

Applicable Requirement	Description of Requirement	Acceptable Test Methods	
BAAQMD and SIP Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions	
BAAQMD Regulation 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling	
BAAQMD Regulation 8-2-301	Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A.	
BAAQMD Regulation 8-7-301.2	Gasoline Vapor Recovery	BAAQMD Manual of Procedures, Volume IV, ST-36	
BAAQMD Regulation 8-49-301	VOC Limits For Aerosol Products	Manual of Procedures, Volume III, Method 35, Determination of Volatile Organic Compounds (VOC) in Solvent Based Aerosol Paints and Adhesives, and Method 36, Determination of Volatile Organic Compounds (VOC) in Water Based Aerosol Paints.	

## VIII. Test Methods (continued)

**Table VIII** (continued)

Applicable Requirement	Description of Requirement	Acceptable Test Methods	
BAAQMD Regulation 8-49-303	VOC Limits for Aerosol Products	Manual of Procedures, Volume III, Method 35, Determination of Volatile Organic Compounds (VOC) in Solvent Based Aerosol Paints and Adhesives, and Method 36, Determination of Volatile Organic Compounds (VOC) in Water Based Aerosol Paints.	
BAAQMD Regulation 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample	
BAAQMD Regulation 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.	
BAAQMD Regulation 9-7-304.1	Limit on Stack-Gas Oxygen Concentration	Manual of Procedures, Volume IV, ST-14, Continuous Sampling	
BAAQMD Regulation 9-8-302.1	Waste Derived Fuel Gas, NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling	
BAAQMD Regulation 9-8-302.3	Waste Derived Fuel Gas, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling	
BAAQMD Cond 278 Part 1	Maximum NOx emission rate	BAAQMD MOP Volume IV, ST-13A Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling	
BAAQMD Cond 278 Part 6	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling or ST-14, Oxygen, Continuous Sampling	
BAAQMD Cond 278 Part 6	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling	

## **IX. GLOSSARY**

### **BAAQMD**

Bay Area Air Quality Management District

### **BACT**

Best Available Control Technology

### **Basis**

The underlying authority which allows the District to impose requirements.

### **CAA**

The federal Clean Air Act

### **CAAQS**

California Ambient Air Quality Standards

### **CEQA**

California Environmental Quality Act

### **CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

### **CO**

Carbon Monoxide

### **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

### **District**

The Bay Area Air Quality Management District

### **EPA**

The federal Environmental Protection Agency.

### **Excluded**

Not subject to any District Regulations.

### **Federally Enforceable, FE**

## **VIII. Glossary (continued)**

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **GLC**

Ground Level Concentration

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

### **Major Facility**

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

### **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

### **MOP**

The District's Manual of Procedures.

### **NAAQS**

National Ambient Air Quality Standards

### **NESHAPs**

National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

### **NMHC**

Non-methane Hydrocarbons

### **NO<sub>x</sub>**

Oxides of nitrogen.

### **NSPS**

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by



## **VIII. Glossary (continued)**

both 40 CFR Part 60 and District Regulation 10.

### **NSR**

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NOx, PM10, and SO2.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Total Particulate Matter

### **PM10**

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

## VIII. Glossary (continued)

### **SIP**

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Ambient Air Quality Standards. Mandated by Title I of the Act.

### **SO<sub>2</sub>**

Sulfur dioxide

### **Title V**

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

### **VOC**

Volatile Organic Compounds

### **Units of Measure:**

bhp	=	brake-horsepower
Btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m <sup>2</sup>	=	square meter
min	=	minute
MM	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

**X. APPENDIX A - STATE IMPLEMENTATION PLAN**

See Attachment